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Women in STEM and Small-Scale Chemistry: Empowering Change through Innovation and Inclusion

Monday 4 August 2025 14:20 (30 minutes)

This presentation examines the intersection of gender equity and scientific innovation through the lens of Small-Scale Chemistry (SSC), an educational approach designed to make chemistry more accessible, cost-effective, and environmentally responsible. In many parts of the world—particularly in South and Southeast Asia—systemic barriers continue to limit the participation of women in science, technology, engineering, and mathematics (STEM). SSC offers a transformative strategy to overcome these barriers by enabling women to engage with science as both educators and learners, even in resource-constrained environments. Drawing on regional data, successful case studies, and the speaker's extensive experience in teacher training and curriculum innovation, this session highlights how SSC can serve as a powerful tool for inclusion and empowerment. The presentation will also outline practical strategies for integrating SSC into national education systems and establishing supportive networks that foster the advancement of women in STEM. Ultimately, this talk advocates for an inclusive, hands-on approach to science education that inspires and equips the next generation of female scientists and leaders.

Presenter: TANTAYANON, Supawan (WISE (Thailand))